# Joint Deployable Intelligence Support System (JDISS)
# Joint Program Office (JPO)

# TPOC Briefing
# January 2002

# TOPICS

- ## JDISS 3.3.2*

  *POC: Lt Jim Reese, JDISS Infrastructure, 301-669-2974*

- ## JDISS 4.x

  *POC: Lt Jim Reese, JDISS Infrastructure, 301-669-2974*

- ## CMMA v1.5*

  *POC: LCDR Christopher Page, JDISS CMMA Project Office, 301-669-5297*

- ## SCI GCCS-I³ v3.5

  *POC: Mr Randy Dedrickson, JDISS Fusion Project Office, 301-669-2971*

*\*Applying for "No Test" Waivers*

# JDISS 3.3.2 and  JDISS 4.X

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# Proposal for DoDIIS Testing and Certification

# JDISS 3.3.2 NT
## Workstation/Client/Server Minor Release

- *Represents Minor release upgrade of JDISS 3.3 (Certified in 2000)*
- *Implements Windows Installer to support abbreviated COE segments; support for full COE segments retained*
- *JDISS Security Segment changes*
  - *Implements Windows NT Security Configuration Editor (SCE) in place of custom DLL's and batch files.*
  - *Relieves security-related network bottleneck (enables, but no longer requires the "Requires Security Signature" for network comms between Windows platforms)*
  - *Relieves audit overflow problem (Increased audit log file size from 8MB to 1GB; disabled "Crash on audit failure" setting)*
  - *Fewer manual TFM steps; most security configuration settings now automated*
- *Eliminates need to remove/reinstall security segment to install new mission applications*
- *Implements automated (Sysprep Ghost) Installation*
- *Applying for "No Test" Waiver*

# JDISS 4.x Windows 2000-XP Infrastructure capabilities...

…reduce the cost and time to integrate mission applications

…provide an easy-to-install Windows XP-based infrastructure

…provide segments "loadable" locally (individual machines) or remotely (across an enterprise)

…provide segments "loadable" on JDISS or Non-JDISS Windows 2000/XP-based infrastructures

...readily accommodate, installation of DII COE compliant segments built by other DoD or IC programs

…implement a revised JDISS COTS License Management (LM) model

…will be SCI certified and DoDIIS approved

…implement PKI encryption technology, JIVA capabilities, DMS-capable communications tools and products...

# JDISS 4.x Windows 2000-XP Infrastructure capabilities (cont)...

…provide workstations that can be integrated into (non-JDISS) COE-based, AFDI-based, or site unique windows NT or Windows 2000 domains

…support interfaces to service C4I systems and major IC systems and databases

…will be interoperable with GCCS and provide ability to display GCCS COP

…will be consistent with DoDIIS and IC directions for Windows 2000 and Windows XP

… allow remote execution of System Administration functions

…will be exportable to Allied Nations, will support foreign-language features

…will be deployable in different implementations, i.e., stand-alone JDISS laptop, large enterprises

# JDISS 4.0 Windows XP
## Infrastructure - A Bridge from v3.3.x

## JDISS 4.0 MISSION APPLICATIONS (Reused 3.3.x Tools)

### TIER 2
**Licensed COTS:**
- Map Display (ARCView)
- MIDB Data Plot (ARCView Option)
- Imagery (ELT, Remote View)
- Dig. Photography (Adobe Photoshop)
- Video Clip Tool
- TCP/IP Tools (Hummingbird Exceed)
- ARCView Options (e.g. GeoRover)
- Other COTS

### TIER 2
**Non-Licensed GOTS/Freeware:**
- Map Display (C2PC Suite, Falcon View)
- MIDB Data Plot (GCCS-I3 Intel Office)
- Imagery (GCCS-I3 Imagery Suite)
- Targeting (JTT Suite)
- ISR Management (SRMT Suite)
- Collection Management (ACPG)
- Other GOTS/ Freeware

## JDISS 4.0 LAPTOP / WORKSTATION / CLIENT
## BASELINE / TIER 1

-JDISS 3.3.X Infrastructure Segments (e.g. JDISS Desktop and Utilities, MS Chat, Netscape, Adobe Acrobat and Frame, Norton Anti-Virus, JCE, Perl)

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JAVA Virtual Machine (JVM) - New for Windows XP

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Microsoft Office 2000 Professional (Updated from JDISS 3.3.1 Segment)

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JDISS 3.3.X Account Group (Updated from JDISS 3.3.1 Segment)

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JDISS 3.3.X License Manager (Still FlexLM - Updated from JDISS 3.3.1 Segment)

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JDISS Security Settings (New for Windows XP)

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DII COE 4.2.0.5 Kernel

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Microsoft Windows XP Professional (Enterprise License version),
includes Internet Explorer Browser

# JDISS 4.1 Windows 2000-XP
## Infrastructure - Full Client/Server Release

## JDISS 4.1 MISSION APPLICATIONS

| TIER 2 | TIER 2 |
|---|---|
| Licensed COTS Mission Applications Segments | Non-Licensed GOTS/Freeware Mission Applications Segments |

## JDISS 4.1 LAPTOP/WORKSTATION/CLIENT/SERVER

**BASELINE/TIER 1**
"Option 1"
----------------------------------------------------
JDISS 4.X Infrastructure Segments (New)
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JDISS 4.X License Manager (New)
----------------------------------------------------
JDISS Security Settings (Updated)
----------------------------------------------------
Microsoft Infrastructure by JDISS*
----------------------------------------------------
Windows XP* (workstations)
Windows 2000* (servers)
----------------------------------------------------

* Enterprise License version

**BASELINE TIER 2**
"Option 2"
----------------------------------------------------
JDISS 4.X Infrastructure Segments (New) **
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JDISS 4.X License Manager (New)
----------------------------------------------------
*Site-unique* Security Config. **
----------------------------------------------------
*Site-unique* Microsoft Infrastructure**
----------------------------------------------------
Windows XP *or Windows 2000***
----------------------------------------------------

** *installed at site discretion*

# JDISS 4.x Release Schedule

- ## JDISS 4.0 Laptop/Workstation/Client
  - *Interim release (Win2k/WinXP Professional Implementation)*
  - *Accelerated for Operation Enduring Freedom and Homeland Defense*
  - *Target release 3QFY02*


- ## JDISS 4.1 Laptop/Workstation/Client/Server
  - *Full Win2k/WinXP Professional and Server Implementation*
  - *Will Supercede 4.0*
  - *Target release 1QFY03*

# Testing and Certification for JDISS 3.3.2 & 4.x

- *JDISS 3.3.2: Requesting "No Test" waiver to support urgent operational requirements; JTPM: 30 Jan 02*

- *JDISS 4.0: Requesting accelerated T&E process to support urgent operational requirements; JTPM: 30 Jan 02*
  - *Currently working build schedule. Estimate configuration ready to enter JITF/JITC/Security testing in 3QFY02*
  - *Perform accelerated set of T&E activities.*
  - *Beta II Site TBD*

- *JDISS 4.1: Normal T&E Process. Estimate configuration ready to enter JITF/JITC/Security testing in 4QFY02.*

# Collection Management Mission Applications (CMMA) Incremental Upgrades

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# Proposal for DoDIIS Testing and Certification

# CMMA Topics

- *Review of Current CMMA V1.0*

- *Proposed CMMA V1.5*

- *Testing and Certifying CMMA V1.5*

# CMMA V1.0

# *CMMA v1.0 Review*

- *Certified AUG 2001; now in fielding*

- *CMMA commissioned by MIB in Aug 2000 in response to recommendations of ISSG*

- *Goal to provide "80% solution" for delivery of CM functionality to DCCC, Regional JIC's*

- *Initial objective to give users that 80% by leveraging existing capabilities present in the BVI, JCE, Malolo, and PRISM Projects*

- *CMMA v1.0 satisfied initial objective by delivering a system highlighted by two configuration items:*

  - *<u>JDISS 3.3.1 NT Collection Management Workstation (CMWS) v1.0</u>: High-end workstation providing single point of access for BVI, JCE, Malolo, PRISM, other applications*

  - *<u>JDISS 2.01.3 Solaris PRISM Regional Web Server (PRWS) v1.0</u>: Mid-range server providing host platform for PRISM web application and associated databases*

# CMMA v1.0 Milestones/Status

- CMMA v1.0 underwent T&E between Feb 01 and Jul 01

- In Aug 2001, DMB authorized operational implementation

- Implementation began in early Sep 01 with fielding to DCCC

- Fielding accelerated after 11 Sep attacks and issuance of requirements by CENTCOM and other unified commands

- Today, 33 CMWS and 6 PRWS assets are operating at 17 locations and supporting approximately 200 trained users

- CMWS, PRWS, and and user counts are expected to continue growing throughout 2002

# Proposed CMMA V1.5

# CMMA v1.5 Overview

- *Minor release upgrade of CMMA v1.0 series*
- *USCENTCOM has issued urgent wartime requirements for functional upgrades of CMMA v1.0*
- *CMMA v1.5 will address the following:*
  - *Integration of collection planning functionality*
  - *Integration of expanded SIGINT functionality*
  - *Improving interoperability between CMMA apps*
  - *Replacement of legacy Oilstock map display (for Malolo)*
- *Remains on same infrastructure (JDISS 3.3.x NT/COE 3.3 and JDISS 2.01.x Solaris/CSE-SS v1.4.2) as originally certified*
- *Remains on same operating system (Windows NT 4.0 and Solaris 7) as originally certified*

# CMMA v1.5 Software Changes

- *New GOTS tool, Automated Collection Planning Generator (ACPG) will satisfy initial requirement for planning functionality*

- *COTS and GOTS components of BVI and PRISM collection suites will be upgraded to satisfy initial requirement for SIGINT functionality*

- *Improved BVI and PRISM data exchange will satisfy initial interoperability requirement*

- *New GOTS tool, Falcon View will replace the Oilstock map display in the MALOLO application*

# CMMA v1.5 Software Changes (cont)

- *CMWS v1.5 will continue to run on JDISS 3.3.1 NT infrastructure with following key changes:*

  - *Addition of ACPG and upgrade of BVI GOTS and COTS components*
  - *Replacement of Oilstock with Falcon View for the MALOLO app*

- *PRWS v1.5 will continue to run on JDISS 2.01.3 Solaris infrastructure with following key changes:*

  - *Addition of ArcIMS (GIS for the Internet, new JAVA connectors and enhanced security features) and SQS (Spatial Query Service-ability to query by Lat/Long)*
  - *Upgrade of PRISM web forms*

# Collection Management Workstation v1.5 (CMWS) Details

## Typical Configuration

### Major Software Items:
- ACPG (added)
- Adobe Acrobat Reader
- Adobe Frame Reader
- BVI v2.0 (updated)
- DII COE 3.3
- Falcon View (added)
- Flight Control
- JDISS 3.3.1 NT
- JIVA JCE 2.1
- Microsoft Internet Explorer
- Microsoft Office 2000 Pro
- Netscape
- Norton Anti-Virus
- Nutcracker
- Oilstock (deleted)
- Paragon ELT
- Satellite Toolkit (w/HREI)

- SL TELNET Server
- Win NT 4.0 (SP-6A)
- WinZIP
- X Vision

### Major Networking Items:
- 10/100 (or ATM) NIC providing JWICS access via TS/SCI LAN

### Major Hardware Items:
- Dell Precis 620 (2 x1GHz PIII)
- 3.5" Floppy
- 1GB (4x256) PC600 RDRAM
- 2x36 GB SCSI 10K RPM HDD
- 20/4X CD-ROM
- Wildcat 4110 Pro Graphics
- 21" Ultrascan Monitor P1110
- Iomega Zip 250 MB Internal
- HK Speakers, Power Adapter

**Underlined Components Changed from v1.0 baseline**

## Typical Acquisition Cost:

### $28,000

# PRISM Regional Web Server (PRWS) v1.5 Details

## Typical Configuration

**Major Software Items:**

- ArcIMS (added)
- Apache Web Server
- Cold Fusion Server
- CSE-SS 1.4.2.1
- JDISS 2.01.3 Solaris
- PRISM Forms v3.0 (updated)
- Sybase ASE
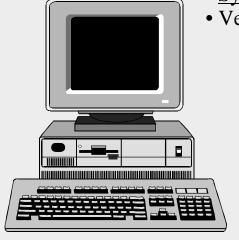- Sybase SQS (added)
- Veritas Back-Up Software

**Major Hardware Items:**

- Sun Enterprise 450 (w/extra CPU's)
- 4x36GB HDD
- GB Ethernet Network Adapter

**Major Networking Items:**

- GB Ethernet NIC providing JWICS access via TS/SCI LAN

**Underlined** Components Changed from v1.0 baseline

### Typical Acquisition Cost:

### $89,000

# Testing and Certification for CMMA v1.5

- *Requesting "No Test" Waiver to support urgent operational requirements.  JTPM scheduled 23 Jan 02.*

- *If "No Test" Denied:*

  - *Intend to have new CMWS and PRWS builds ready for T&E by end of Mar 02*

  - *Would like to perform accelerated set of T&E activities between Apr 02 and May 02*

  - *USCENTCOM willing to serve as Beta II site*

# SCI Global Command and Control System- Integrated Intelligence and Imagery (SCI GCCS-I³)

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# Proposal for DoDIIS Testing and Certification

# SCI GCCS-I$^3$ Topics

- *System Overview*

- *Current Release, SCI GCCS-I$^3$ (v3.4)*

- *New Release, SCI GCCS-I$^3$ (v3.5)*

- *Testing and Certifying SCI GCCS-I$^3$ v3.5*
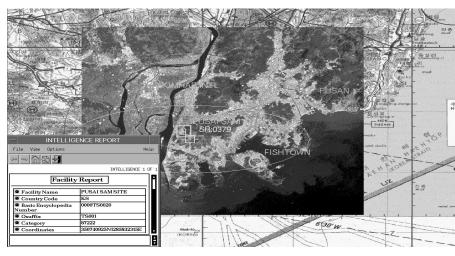
# SCI GCCS-I³ System Overview

# Common Intelligence Picture (CIP) vs. Common Operating Picture (COP)
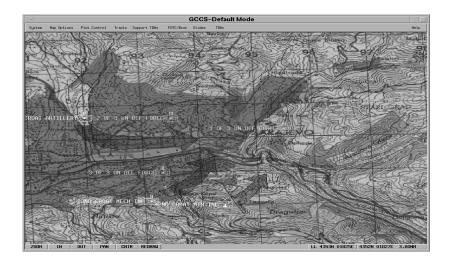
- *J2 GCCS I³ CIP integrates the GCCS COP with SCI data sources:*
  - *Near Real Time Intel (NRTI) and other SIGINT*
  - *Integrated Intelligence*
    - *MIDB/C&P*
    - *Target Data*
  - *Integrated Imagery*
  - *Collection Management*

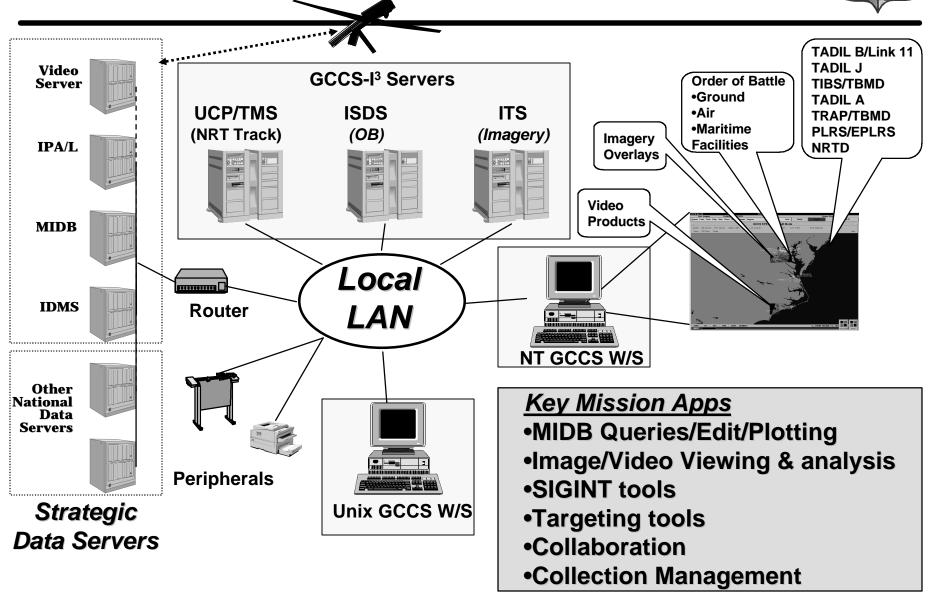**Guard Technology synchs data**

**between CIP and COP**

- *J3 GCCS COP provides:*
  - *GENSER Track data*
  - *Maps*
  - *Overlays*
  - *ATO*
  - *Weather*

# SCI GCCS-I3 System Components

**Strategic Data Servers**
- Video Server
- IPA/L
- MIDB
- IDMS

**Other National Data Servers**

Router

Peripherals

**GCCS-I³ Servers**

| UCP/TMS | ISDS | ITS |
|---------|------|-----|
| (NRT Track) | (OB) | (Imagery) |

**Local LAN**

Unix GCCS W/S

NT GCCS W/S

Imagery Overlays

Video Products

Order of Battle
- Ground
- Air
- Maritime Facilities

TADIL B/Link 11
TADIL J
TIBS/TBMD
TADIL A
TRAP/TBMD
PLRS/EPLRS
NRTD

## Key Mission Apps
- MIDB Queries/Edit/Plotting
- Image/Video Viewing & analysis
- SIGINT tools
- Targeting tools
- Collaboration
- Collection Management

# *Current SCI GCCS-I³ v3.4*

# SCI GCCS-I³ v3.4 Overview

- SCI GCCS-I3 commissioned by MIB in May 2001 in response to recommendations of ISSG

- Initial FY02 objective:
  - Take post-assessment ISSG Proof of Concept III SCI GCCS-I3 (aka v3.4) baseline through DoDIIS Test and Evaluation
  - Field SCI GCCS-I3 to three JICs
  - Provide sustainment services for fielded baseline

- SCI GCCS-I3 v3.4 configuration items:
  - SCI GCCS-I3 UNIX Server Suite: Mid-Range Server that provides NRT Track, OB, and GIS Data to site enterprise
  - SCI GCCS-I3 UNIX [or NT] Client: provides client-side intelligence applications to access and modify data on servers

# *SCI GCCS-I³ v3.4 UNIX Server*

## *Configuration*

**Major Software Items:**

Basic Build
- Solaris 2.5.1 (rev A 11/97)
- DII COE 3.3
- Support Utilities

NRT Track
- Unified Build 3.0.2.5
- JMTK 1.0.0.10
- Data Link Interfaces
- COP Management Software

Intel Shared Data Server
- Sybase 11.X
- GMIDB (and others)
- Web Access Support

Imagery
- Imagery Server
- Import, Export, Transformation

SIGINT Support
- Cryptologic Management
- GHOSTWIRE
- SI Correlator

SCI Security Lockdowns

**Major Networking Items:**
- 10/100 (or ATM) NIC providing JWICS access via TS/SCI LAN

**Major Hardware Items:**
- Sun Enterprise 450
- UltraSPARC II Processor
- 1GB RAM
- 40 GB Hard Drive
- 32x CD-ROM
- 8 mm Tape Drive

**Approximate Acquisition Cost:**

**$40,000**

# SCI GCCS-I³ v3.4 UNIX Client

## Configuration

**Major Software Items:**

Basic Build
- Solaris 2.5.1 (rev A 11/97)
- DII COE 3.3
- Support Utilities

NRT Track
- Unified Build 3.0.2.5
- JMTK 1.0.0.10
- Data Link Interfaces
- COP Management Software

Intel Shared Data Server
- Sybase Client Access
- VADIR/TACDM

Imagery Support
- Client Imagery Apps

SIGINT Support
- Cryptologic Management
- GHOSTWIRE

SCI Security Lockdowns

**Major Networking Items:**
- 10/100 (or ATM) NIC providing JWICS access via TS/SCI LAN

**Major Hardware Items:**
- Sun 10
- UltraSPARC IIi Processor
- 256 MB RAM
- 18 GB Hard Drive
- 32x CD-ROM
- 8 mm Tape Drive

**Approximate Acquisition Cost:**

**$20,000**

# SCI GCCS-I³ v3.4 NT Client

## Configuration

**Major Software Items:**

Basic Build
- NT 4.0 (SP 6A)
- Support Utilities

NRT Track Mgt
- C2PC

ISDS Access
- Intel Office
- Sybase Open Client & ODBC
- Hummingbird Exceed

Imagery Support
- Image Viewer
- Video Ingestion and Dissemination

SCI Security Lockdown

**Major Networking Items:**
- 10/100 (or ATM) NIC providing JWICS access via TS/SCI LAN

**Major Hardware Items:**
- Pentium III or better
- 256 MB RAM
- 4 GB Hard Drive
- 32x CD-ROM
- 8 mm Tape Drive

**Approximate Acquisition Cost:**

**$4,000**

# SCI GCCS-I³ v3.4 Milestones and Status

- *System Configuration Complete (OCT 01)*
  - *Deployments IRT OEF Tasking*

- *SCI GCCS-I³ v3.4 has not completed DoDIIS T&E*
  - *Original schedule called for JITF Entry in JAN-FEB 02*
  - *IMA was called out by name by CENTCOM and EUCOM to support OEF*
  - *Deployment scheme requires Site System Security Certification immediately following installation*

- *Components of SCI GCCS-I³ v3.4 have been deployed to 6 locations and are supporting approximately 60 trained users*

- *Plans to deploy SCI GCCS-I³ v3.4 are in the works for additional locations*

- *Follow on version SCI GCCS-I³ v3.5, now the intended subject for DODIIS T&E, 3QFY02 Timeframe*

# *SCI GCCS-I3 v3.5 – New Release*

# SCI GCCS-I³ v3.5 Overview

- *USCENTCOM, acting as ISSG chair, has issued requirements for urgent upgrades of SCI GCCS-I³ v3.4, which are driving the v3.5 configuration.*

- *SCI GCCS-I³ v3.5 will address the following:*
  - *Integration of expanded SIGINT functionality*
  - *Integration of expanded functionality to support CIP production and dissemination*
  - *Correct known interoperability problems*
  - *Implementation of enhanced SCI-level security configuration*

# SCI GCCS-I³ v3.5 Software Changes

### Solaris (Server/Client)

- ITS (Imagery) server fixes
- ISDS (MIDB) Upgrades
- New CUB/Gale/GLIS Segments
- UB Upgrade
- S309/C103 message decoder segments
- Secure Shell to replace TELNET & RLOGIN
- CD-ROM installation upgrades
- SUDO, JDSEC1 upgrades

### NT (Workstation)

- Intel Office Upgrade
- Compressor: required for NTSC--MPEG conversion
- New JTT 2.0
- Imagery Segments Upgrade
- UNIX File Sharing from NT Clients

# *Testing and Certification for SCI GCCS-I³ v3.5*

- *Will request accelerated T&E Process to support urgent operational requirements*

  – *JTPM: 30 JAN 02*

  – *Currently working build schedule, estimate configuration ready to enter JITF/JITC/Security testing in 3QFY02*

  – *Perform accelerated set of T&E activities based on build schedule and DoDIIS DeXA for T&E schedules*

  – *USCENTCOM to serve as Beta II site*